<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>T-12812</td>
</tr>
<tr>
<td>Office No.</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Keku Strait</td>
</tr>
<tr>
<td>Locality</td>
<td>N. W. of the Summit</td>
</tr>
</tbody>
</table>

**DATE**

| Date                | 1961-1969                 |

**CHIEF OF PARTY**

| Alfred C. Holmes    |
| Director, Atlantic Marine Center |
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
PROJECT NO. (I):
H-6206

FIELD OFFICE (II): None

PHOTOMGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, Virginia

CHIEF OF PARTY

OFFICER-IN-CHARGE
Alfred C. Holmes, Director

INSTRUCTIONS DATED (II) (III):
OFFICE INSTRUCTIONS January 18, 1965
OFFICE SUPPLEMENT III December 19, 1967
OFFICE SUPPLEMENT IV April 14, 1970
FIELD INSTRUCTIONS February 11, 1969

METHOD OF COMPILATION (III):
Wild B-8 and Graphic

MANUSCRIPT SCALE (III):
1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:7,500 Pantographed to 1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):
N.A. 1927

REFERENCE STATION (III):
HAY 1927

LAT.: 56°42'53.324"(1649.4m) 133°45'21.423"(364.4m)

LONG.: X ADJUSTED

PLANE COORDINATES (IV):
1,783,026.93 ft. x = 2,667,706.33 ft.

STATE: Alaska

ZONE: 1

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) FIELD PARTY, (II) PHOTOMGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
### Descriptive Report - Data Record

**T-12812**

**Field Inspection by (III):**

None

**Mean High Water Location (III) (State Date and Method of Location):**

**Air Photo Compilation**

**Date of Photography:** June 16, 1964

**Projection and Grids Ruled by (IV):**

L. F. Van Scoy  
**Date:** Sept. 19, 1967

**Projection and Grids Checked by (IV):**

R. Glaser  
**Date:** Sept. 20, 1967

**Control Plotted by (III):**

L. O. Neterer  
**Date:** Nov. 16, 1967

**Control Checked by (III):**

L. L. Barge  
**Date:** Nov. 16, 1967

**Radial Plot or Stereoscopic Control Extension by (III):**

W. Heinbaugh WSC

**Stereoscopic Instrument Compilation (III):**

**Planimetry:**

Richard Minton  
Reviewed: L. O. Neterer  
**Date:** June 5, 1968  
June 13, 1968

**Contours:**

Not Applicable

**Manuscript Delineated by (III):**

Richard Minton  
**Date:** May 15, 1968

**Scribing by (III):**

F. P. Margiotta  
**Date:** Jan. 26, 1972

**Photogrammetric Office Review by (III):**

Compilation: L. L. Graves  
**Date:** July 3, 1968

**Remarks:**
DESCRIPTIVE REPORT - DATA RECORD
T-12812

Wild RC-8 "W"

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>64-W(c)-1142 thru</td>
<td>16 June 1964</td>
<td>10:44 PST</td>
<td>1:15,000</td>
<td>5.2 ft. Above MLLW</td>
</tr>
<tr>
<td>1144</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>61W9427 and 9426</td>
<td>16 July 1964</td>
<td>09:02 PST</td>
<td>1:20,000</td>
<td>1.2 ft. Above MLLW</td>
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PREDICTED TIDE (III)

REFERENCE STATION: Ketchikan, Alaska

RATIO OF RANGES

<table>
<thead>
<tr>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0</td>
<td>15.4</td>
</tr>
</tbody>
</table>

SUBORDINATE STATION: The Summit, Keju Strait

RATIO OF RANGES

<table>
<thead>
<tr>
<th>MEAN RANGE</th>
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<tbody>
<tr>
<td>13.2</td>
<td>15.7</td>
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</table>

WASHINGTON OFFICE REVIEW BY (IV):
Leo F. Beugnet, AMC

DATE: May 1972

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):
RECOVERED: 1
IDENTIFIED: 1

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED: None
IDENTIFIED: None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

None
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<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<td>June 5, 1968</td>
<td>Superseded</td>
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<td>pending field edit</td>
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<tr>
<td>Field Edit applied</td>
<td>Dec. 2, 1969</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>May 1972</td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12812

Shoreline survey T-12812 is one of 53 similar surveys in project PH-6206. The primary purpose of the surveys was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the area.

This survey covers a part of the western shore of Kuiu Island bordering Keku Strait. See page 5 of the descriptive report for the area within the project.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. The survey was subsequently field edited during the 1969 field season.

Compilation was at 1:5,000 scale using the photography of July 1961 and June 1964. Film positives, ozalids and specially prepared photographs were furnished for transfer of the shoreline to the boat sheet, photo-hydro support and field edit use.

The manuscript was a vinylite sheet 1 minute 52.5 seconds in latitude by 2 minutes 30 seconds in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in May 1972. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT
PROJECT PH 6206
T-12812

There was no field inspection prior to compilation.
21. Area Covered
This report pertains to that portion of Keku Straits between 56° 33' 45" and 56° 45' 00".

22. Method
Two strips of photography were bridged using stereoplani-
graph and emulsion-drilled diapositives. Measurements made
by the stereoscopic instruments were adjusted using 1620 IBM
programs.

23. Adequacy of Control
Number and location of field-identified horizontal control
stations were adequate to control the bridges with sufficient
accuracy to comply with National Standards of Map Accuracy.
Station LO 1927 did not hold in the adjustment but closer in-
vestigation revealed that an apparent transposition of dis-
tances to the substitute stations had occurred. After re-
computing the positions all control held satisfactorily.

24. Supplemental Data
U.S.G.S. quadrangles, Petersburg (C-5 and C-6), Alaska,
scale 1:63,360, 1948 edition, were used to determine eleva-
tions to provide vertical control where required.

25. Photography
Photography was adequate for coverage, definition and endlap.

Respectfully submitted:

W. Heinbaugh

Approved by:

John O. Perrow, Jr.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 304.8006 meter)</th>
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<tbody>
<tr>
<td>HAY 1927</td>
<td>GP. VOL. 2 P. 359</td>
<td>NA 1927</td>
<td>56° 42' 53.324&quot;</td>
<td>133° 45' 21.423&quot;</td>
<td>1649.4 (206.5)</td>
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</tbody>
</table>

**COMPUTED BY**

B. L. Barge  
**DATE**  
11-29-67  

**CHECKED BY**  
LLG  
**DATE**  
July 2, 1968
COMPILATION REPORT
Map Manuscript T-12812
Project PH-6206

31. **DELINEATION**

   The Wild B-8 was used. Photography was adequate for the delineation of this manuscript.

32. **CONTROL**

   See "Aerotriangulation Report," (Not dated)

33. **SUPPLEMENTAL DATA**

   None

34. **CONTOURS AND DRAINAGE**

   Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

   The approximate mean lower low water line was delineated from 1964 color photographs taken at a 5.2 feet stage of tide and supplemented by 1961 photographs taken at 1 foot stage of tide.

   A more defined interpretation of rocks and ledges could be ascertained from the photographs taken in 1961.

36. **OFFSHORE DETAILS**

   Offshore details were delineated in the same manner as alongshore details.
37. **LANDMARKS AND AIDS**


38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Satisfactory junctions were made with T-12209, scale 1:10,000 to the north and west, T-12210, scale 1:10,000 and T-12813, scale 1:5,000 to the east, T-12213, scale 1:10,000 and T-12815, scale 1:5,000 to the south.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with USGS Quadrangle, PETERSBURG (C-6), Scale 1:63,360, dated 1948.

47. **COMPARISON WITH NAUTICAL CHARTS**

A comparison was made with chart 8272, KEMI STRAIT, Scale 1:20,000, 2nd Edition dated November 14, 1960; Revised March 18, 1963.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None

**ITEMS TO BE CARRIED FORWARD**

None
Submitted:

L. L. Graves
Carto. Technician

Approved for forwarding:

Melvin J. Umbath, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)
T-12812

Keku Strait
Kuiu Island
Rocky Pass

Approved by:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
49. NOTES FOR THE HYDROGRAPHER:

1- There was no field inspection prior to compilation; therefore, occasional measurements should be made from identifiable points on the photographs to the IAML to verify compilation.

2- If there are landmarks or fixed aids to navigation within the area of this map, investigate and submit Form 567.

3- Give character of foreshore areas (sand, mud, etc.).

4- Foul, shoal, and reef areas and rocks shown on this manuscript were determined by office interpretation of aerial photographs of the area. Their existence and extent should be verified by the hydrographer. If a foul, shoal, or reef area or rock does not exist, this fact should be noted on the Field Edit Ozalid.

5- See Field Edit Ozalid for other notes.
### PHOTOGRA M ETRIC OFFICE REVIEW

**T-12812**

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<thead>
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**Control Stations**

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<th>6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic Stations)</th>
<th>7. Photo Hydro Stations</th>
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**Bench Marks**

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**Alongshore Areas (Nautical Chart Data)**

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**Physical Features**

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**Cultural Features**

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**Boundaries**

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<th>31. Boundary Lines</th>
<th>32. Public Land Lines</th>
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**Miscellaneous**

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<thead>
<tr>
<th>33. Geographic Names</th>
<th>34. Junc tions</th>
<th>35. Legibility of the Manuscript</th>
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<tbody>
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**Discrepancy Overlay**

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**Reviewer**

<table>
<thead>
<tr>
<th>40. Reviewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.L. Graves</td>
</tr>
<tr>
<td>Albert C. Rauck, Jr.</td>
</tr>
</tbody>
</table>

**Remarks (See attached sheet)**

**Field Completion Additions and Corrections to the Manuscript**

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

<table>
<thead>
<tr>
<th>Compiler</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. H. Bishop</td>
</tr>
<tr>
<td>12-2-69</td>
</tr>
<tr>
<td>Albert C. Rauck, Jr.</td>
</tr>
</tbody>
</table>

**Remarks**

Field edit applied from: Field edit ozalid and Field Photos 64 w 1142 through 1145.
FIELD EDIT REPORTS
Keku Strait
Southeast Alaska
OPR-448
June-August 1969

INTRODUCTION

Field edit reports are attached for the following maps:

T-12812     T-12817
T-12813     T-12818
T-12814     T-12819
T-12815     T-12820
T-12816

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

DA-5-2-69
DA-5-3-69
DA-5-4-69
DA-5-5-69

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the Field Edit Ozalids by photograph number. All times are based on 105°West meridian.

Generally compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and that the maps, with the exceptions of T-12813, T-12815, and T-12818, be accepted as advance manuscripts. Maps T-12813, T-12815, and T-12818 should be compiled using the recent photographs. It is recommended that the compiler obtain copies of the above boat sheets and use them in compiling the advance manuscripts.

Field inspection of these maps is complete except for map T-12820.

Copies of "Nonfloating Aids or Landmarks for Charts", form C&GS 567, are attached.
FIELD EDIT REPORT
MAP T-12812

Keku Strait
Southeast Alaska
June 1969

Field edit of map T-12812 was done by LT Edward Geib and Lt(jg) Bruce Fisher during June 1969. Inspection was done on foot and in a 12-foot whaler.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalid in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets DA-5-2-69 & DA-5-3-69 and then transferred to the T-sheet and ozalid for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the "Field Edit Ozalid" by photograph number. All times are based on 105° West meridian. Notes are on the following photographs:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>64W1142</td>
<td>64W1144</td>
</tr>
<tr>
<td>64W1143</td>
<td>64W1145</td>
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</table>

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of isolated boulders compares well to the photogrammetric location of the same boulders.

The building shown on this map does not exist.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photographs and that the map be accepted as an advance manuscript.

Respectfully submitted

Bruce W. Fisher
LIJG USESSA
The field edit of the following manuscripts was accomplished under my supervision:

<table>
<thead>
<tr>
<th>Manuscript</th>
<th>Manuscript</th>
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<tbody>
<tr>
<td>T-12812</td>
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<td>T-12820</td>
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<tr>
<td>T-12816</td>
<td></td>
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</tbody>
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Frequent inspections of the field edit work and of plotted comparisons on the boat sheets were made.

Ray E. Moses

Ray E. Moses
CDR, USESSA
Commanding Officer
USCG&GSS DAVIDSON
61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with a copy of Registered Survey No. 4341. This is a 1:10,000 scale survey made in September-October 1927 and is on a different datum than T-12812. The two surveys are in fair agreement although the delineation of the mean high water line is more detailed on T-12812.

Registered survey No. 4341 is now superseded by T-12812 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS PETERSBURG (C-6), ALASKA, 1:63,360 scale quadrangle, edition of 1948. Because of its scale this survey is necessarily generalized and does not show all of the offshore features in detail.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-9078 (DA 5-2-69) and H-9079 (DA 5-3-69). The shoreline of the boat sheets and T-12812 are in good agreement. Many of the rocks on these two boat sheets appear to have not been verified by either the hydrographer or the field editor. The source of these rocks was probably an incomplete manuscript. During the time of final review a number of these rocks which were clearly in conflict with the hydrography or were determined to be kelp or a bottom characteristic were removed from the shoreline survey.
The mean lower low water line of the hydrographic surveys is not in complete agreement with that of T-12812. This line has been noted as approximate and retained on the shoreline survey for any value it may have to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8272, 4th edition, November 21, 1970. The difference in the mean high water line of the two surveys has been indicated on the comparison print in red.

There appears to be a small difference in the position of some rocks between the two surveys. These have also been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:
Leo F. Beugnet
Cartographer

Approved for forwarding:
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:
Chief, Photogrammetric Branch Chief, Coastal Mapping Division